Listing of Claims

This listing of claims replaces all prior versions and listings of claims in the application:

1. (Currently amended) A method of manufacturing an amorphous alloy core comprising the steps of:

mixing an amorphous alloy powder with a solution, the amorphous alloy powder having an average diameter of less than 10 μm and selected from the group consisting of Fe-Si-B based alloys and Fe-Al-B based alloys made by high pressure water injection, the solution made by dissolving a polyimide~~/phenolic~~ resin binder ranging from 0.5 to 3.0 wt% of the total mass in an organic solvent, evenly coating the binder in liquid phase on the surface of the alloy powder to make a powder of composite particles;

molding the powder of composite particles at a temperature of 50 to 300°C under a pressure of 30 ton/cm^2; and

performing a heating treatment ~~thereon~~ at a temperature more than 10°C lower than a crystallization starting temperature of said amorphous alloy.

2. (Currently amended) A method ~~according to claim 1, wherein the amorphous alloy power is selected from the group consisting of Fe-Si-B based alloys, Fe-Al-B based alloys, and Co-Fe-Si-B based alloys~~ of manufacturing a nano-crystal alloy core having a saturated magnetic flux density of more than 1.10T and a permeability of more than 0.90, measured between 1 MHz and 0.1 MHz, the method comprising the steps of:

mixing an amorphous alloy powder with a solution, the amorphous alloy powder having an average diameter of less than 10 μm and selected from the group consisting of Fe-Si-B based

alloys and Fe-Al-B based alloys made by high pressure water injection, the solution made by dissolving a polyimide~~/phenolic~~ resin binder ranging from 0.5 to 3.0 wt% of the total mass in an organic solvent, evenly coating the binder in liquid phase on the surface of the alloy powder to make a powder of composite particles;

molding the powder of composite particles at a temperature of 50 to 300°C under a pressure of 10 to 30 ton/cm^2; and

performing a heating treatment at a temperature less than 100°C higher than a crystallization starting temperature of said amorphous alloy.

3. (Cancelled)

4. (Cancelled)

5. (Cancelled)

6. (Cancelled)

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11.(Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)